

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	15	((wafer or substrate or semiconductor) same (reactor or chamber or vessel)) and (TMP or turbo) and (recycle with gas)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/13 18:56
L2	34	("4593530"   "4957523"   "5169407"   "5363369"   "5363396"   "5779998"). PN. OR ("6334928"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 18:57
L3	1015	((wafer or substrate or semiconductor) same (reactor or chamber or vessel)) and (TMP or turbo) and (dry adj1 pump)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/13 19:04
L4	13	3 and (return\$3 with pipe)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/13 19:04
L5	4	("5777205"   "5897710"   "6303395").PN. OR ("6716477").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 19:05
L6	13	("20020101167"   "4460673"   "4571543"   "5565114"   "6224677"   "6248400"   "6265033"   "6406759"   "6406924"   "6599842"   "6689699"   "6782907"   "6938638"). PN. OR ("7182879"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 19:06
L7	21	3 and (return\$3 with line) not 4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/13 19:09

L8	990	3 not 4-7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/13 19:14
L9	843	8 and (tank or source or fill)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/13 19:15
L10	216	9 and (recycle or return)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/13 19:15
S31	29533	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/30 20:47

S34	7874	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S35	2413	141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S36	471	261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S37	2607	261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S38	7161	261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S39	29603	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03

		(261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)				
S40	2013	(118/723e.ccls. or 118/723er.ccls. or 156/345.43-345.47.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S41	9736	118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S42	7874	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S43	2413	141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S44	471	261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S45	2607	261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S46	7161	261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03

S47	29603	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03
S48	31053	S40 or S47	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 14:03

S49	31880	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S50	8171	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S51	2621	141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S52	498	261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59

S53	2655	261/19-22.ccls. or 261/23.1.ccls. or 261/40. ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S54	7368	261/64.1.ccls. or 261/65. ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108- 109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S55	31880	(118/715.ccls. or 118/728. ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571- 576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285- 286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54. ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131. ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40. ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65. ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108- 109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S56	2417	(118/723e.ccls. or 118/723er.ccls. or 156/345.43-345.47.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59

S57	11247	118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S58	8171	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S59	2621	141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S60	498	261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S61	2655	261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S62	7368	261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59



S63	31880	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S64	33644	S56 or S63	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 14:59
S65	90	S64 and (wafer or substrate) and (recycle) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 15:01

S66	31	("20010017080" I "20020053191" I "20030037730" I "4469720" I "4897096" I "5015503" I "5303558" I "5575853" I "5649428" I "5704214" I "5766683" I "5819683" I "5950675" I "5958510" I "6007330" I "6077562" I "6086711" I "6107198" I "6159298" I "6197119" I "6238514" I "6361607" I "6402806" I "6506352").PN. OR ("6770145").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/10 15:08
S67	10	("20020034880" I "4816113" I "6110542" I "6206970" I "6374833" I "6410408" I "6660342" I "6689699" I "6782907"). PN. OR ("6938638"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/10 15:14
S68	44	(US-20020081250-\$ or US-20050011442-\$ or US- 20030036272-\$).did. or (US-6890493-\$ or US- 5531834-\$ or US- 6143361-\$ or US- 5851293-\$ or US- 5750436-\$ or US- 6833024-\$ or US- 6749814-\$ or US- 5578132-\$ or US- 6123984-\$ or US- 5542828-\$ or US- 5352902-\$ or US- 5565038-\$ or US- 6737026-\$ or US- 5540772-\$ or US- 5456945-\$ or US- 5484484-\$ or US- 5091207-\$ or US- 5902403-\$ or US- 6729041-\$ or US- 6263590-\$).did. or (JP- 09251981-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TIDB	OR	ON	2008/02/10 15:50
S69	2417	(118/723e.ccls. or 118/723er.ccls. or 156/345.43-345.47.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TIDB	OR	ON	2008/02/10 16:01

S70	31880	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 16:01
S71	33644	S69 or S70	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 16:01
S72	193	S71 and (wafer or substrate) and (recycle\$3) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 16:01
S73	90	S71 and (wafer or substrate) and (recycle) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 16:02

S74	103	S72 not S73	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 16:02
S75	2	JP-09251981-S.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 16:16
S76	8	((("6,086,677") or ("5,453,124") or ("3,854,443"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/10 16:20
S77	154	S71 and (wafer or substrate) and (foreline) and (reactor or chamber or vessel) not 6-7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 16:27
S78	0	S71 and (wafer or substrate) and (foreline) and (reactor or chamber or vessel) not 6-10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 16:27
S79	17	(wafer or substrate) and (recycle) and (reactor or chamber or vessel)	JPO	OR	ON	2008/02/10 16:55
S80	20	(US-20020034880-S or US-20030141018-S or US- 20040074516-S or US- 20040250755-S or US- 20040250775-S or US- 20040255854-S or US- 20030036272-S or US- 20050279731-S or US- 20030198754-S or US- 20040050325-S or US- 20050247331-S).did. or (US-6007330-S or US- 5575853-S or US- 6918406-S or US- 6938638-S or US- 7182879-S or US- 6689699-S or US- 6863019-S or US- 6782907-S).did. or (JP- 09251981-S).did.	US-PGPUB; USPAT; JPO	OR	ON	2008/02/10 18:01
S81	6502	(wafer or substrate) and (return with (path or pipe)) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 18:15

S82	1237	(wafer or substrate) and ((gas and return) with (path or pipe)) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2008/02/10 18:16
S83	883	S82 and valve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2008/02/10 18:16
S84	111	(Saito-Masashi.in. or Hirayama-Yusuke.in. or Sakai-Itsuko.in. or Ohiwa-Tokuhisa.in.) and (reactor or chamber)	US-PGPUB; USPAT; JPO	OR	ON	2008/02/10 18:19
S85	878	S83 not S84	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2008/02/10 18:25
S86	9	("20020145711" I "20030164929" I "6665046" I "6704088" I "6734950" I "6788392" I "6961113" I "6987554"). PN. OR ("7145629"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/10 18:42
S87	12	("20020094306" I "20030151728" I "4704348" I "4786947" I "5696623" I "6335787" I "6545746" I "6616898" I "6700641" I "6707529"). PN. OR ("6987554"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/10 18:47
S88	26	(US-20020034880-S or US-20030141018-S or US-20040074516-S or US-20040250755-S or US-20040250775-S or US-20040255854-S or US-20030036272-S or US-20050279731-S or US-20030198754-S or US-20040050325-S or US-20050247331-S or US-20010051232-S or US-20020134429-S).did. or (US-6007330-S or US-5575853-S or US-6918406-S or US-6938638-S or US-7182879-S or US-	US-PGPUB; USPAT; JPO	OR	ON	2008/02/10 21:06

		6689699-\$ or US-6863019-\$ or US-6782907-\$ or US-7145629-\$ or US-6987554-\$ or US-7283199-\$ or US-5549798-\$).did. or (JP-09251981-\$).did.				
S89	25	("20030029566"   "3867216"   "4336414"   "5028556"   "5417742"   "5688405"   "5693179"   "5708556"   "5785741"   "5812403"   "5818018"   "5949076"   "5964949"   "5997737"   "6032484"   "6045618"   "6187072"   "6193802"   "6194628"   "6206970"   "6332925"   "6334928"   "6383301"). PN. OR ("6863019"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/10 21:16
S90	971	(wafer or substrate) and (recirculat\$3 with (path or pipe)) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 21:17
S91	895	S90 not S85	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 21:18
S92	545	S91 and valve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 21:18
S93	501	S92 not blood	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 22:07
S94	501	S93 not hemoglobin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 22:08

S95	658	HORIUCHI-TAKAO.in. or HORIUCHI-AZUMI. in. or GAMINO- HIROAKI.in. or NIIMURA-YASUHIRO. in. or HATTORI- HIROSHI.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 22:41
S96	53	S95 and (wafer or substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/10 22:41
S97	2	("6942811").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/01 21:16
S98	4	((("6942811") or ("6217633"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/01 22:26
S99	30	(US-20020034880-S or US-20030141018-S or US- 20040074516-S or US- 20040250755-S or US- 20040250775-S or US- 20040255854-S or US- 20030036272-S or US- 20050279731-S or US- 20030198754-S or US- 20040050325-S or US- 20050247331-S or US- 20010051232-S or US- 20020134429-S or US- 20060102282-S or US- 20070119814-S).did. or (US-6007330-S or US- 5575853-S or US- 6918406-S or US- 6938638-S or US- 7182879-S or US- 6689699-S or US- 6863019-S or US- 6782907-S or US- 7145629-S or US- 6987554-S or US- 7283199-S or US- 5549798-S or US- 6942811-S or US- 6217633-S).did. or (JP- 09251981-S).did.	US-PGPUB; USPAT; JPO	OR	ON	2009/09/09 11:57

S100	45	(("20010002663"   "20020033229"   "20020047172"   "20020104821"   "20020121502"   "20020163051"   "20020164879"   "20020185699"   "20020196524"   "20030054588"   "20030071015"   "20030077878"   "20030124848"   "20030166342"   "20030219986"   "3511727"   "4190488"   "4213818"   "4310380"   "4342817"   "4498953"   "4551197"   "4735920"   "5041361"   "5439553"   "5723383"   "5726480"   "5835256"   "5994238"   "6051503"   "6115172"   "6153115"   "6162367"   "6197610"   "6204080"   "6238581"   "6290864"   "6355181"   "6396619"   "6409876"   "6436229"   "6500356"   "6576489"). PN. OR ("6942811"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/09 12:06
S101	10	(("20020034880"   "4816113"   "6110542"   "6206970"   "6374833"   "6410408"   "6660342"   "6689699"   "6782907"). PN. OR ("6938638"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/09 12:12
S102	33177	(118/715.ccls. or 118/728. ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571- 576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46



		137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)				
S103	8390	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S104	2687	141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S105	515	261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S106	2688	261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S107	7495	261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46

S108	33177	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S109	2637	(118/723e.ccls. or 118/723er.ccls. or 156/345.43-345.47.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S110	12095	118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46

S111	8390	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571- 576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S112	2687	141/285-286.ccls. or 141/37.ccls. or 141/44-47. ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S113	515	261/127.ccls. or 261/131. ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S114	2688	261/19-22.ccls. or 261/23.1.ccls. or 261/40. ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S115	7495	261/64.1.ccls. or 261/65. ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108- 109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S116	33177	(118/715.ccls. or 118/728. ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571- 576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285- 286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54. ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131. ccls. or 261/146-147.ccls. or 261/150.ccls.) or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46

		(261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)				
S117	35102	S109 or S116	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S118	33177	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46

S119	8390	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S120	2687	141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S121	515	261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S122	2688	261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S123	7495	261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S124	33177	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46

		(261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)				
S125	2637	(118/723e.ccls. or 118/723er.ccls. or 156/345.43-345.47.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S126	12095	118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S127	8390	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S128	2687	141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S129	515	261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S130	2688	261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S131	7495	261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46

S132	33177	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S133	35102	S125 or S132	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S134	112	S133 and (wafer or substrate) and (recycle) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46

S135	39	("20010017080" I "20020053191" I "20030037730" I "4469720" I "4897096" I "5015503" I "5303558" I "5575853" I "5649428" I "5704214" I "5766683" I "5819683" I "5950675" I "5958510" I "6007330" I "6077562" I "6086711" I "6107198" I "6159298" I "6197119" I "6238514" I "6361607" I "6402806" I "6506352").PN. OR ("6770145").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/09 12:46
S136	10	("20020034880" I "4816113" I "6110542" I "6206970" I "6374833" I "6410408" I "6660342" I "6689699" I "6782907"). PN. OR ("6938638"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/09 12:46
S137	44	(US-20020081250-\$ or US-20050011442-\$ or US- 20030036272-\$).did. or (US-6890493-\$ or US- 5531834-\$ or US- 6143361-\$ or US- 5851293-\$ or US- 5750436-\$ or US- 6833024-\$ or US- 6749814-\$ or US- 5578132-\$ or US- 6123984-\$ or US- 5542828-\$ or US- 5352902-\$ or US- 5565038-\$ or US- 6737026-\$ or US- 5540772-\$ or US- 5456945-\$ or US- 5484484-\$ or US- 5091207-\$ or US- 5902403-\$ or US- 6729041-\$ or US- 6263590-\$).did. or (JP- 09251981-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S138	2637	(118/723e.ccls. or 118/723e.ccls. or 156/345.43-345.47.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46



S139	33177	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S140	35102	S138 or S139	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S141	234	S140 and (wafer or substrate) and (recycle) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S142	112	S140 and (wafer or substrate) and (recycle) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46

S143	122	S141 not S142	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S144	2	JP-09251981-S.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S145	8	((("6,086,677") or ("5,453,124") or ("3,854,443"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/09 12:46
S146	174	S140 and (wafer or substrate) and (foreline) and (reactor or chamber or vessel) not 6-7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S147	0	S140 and (wafer or substrate) and (forline) and (reactor or chamber or vessel) not 6-10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S148	18	(wafer or substrate) and (recycle) and (reactor or chamber or vessel)	JPO	OR	ON	2009/09/09 12:46
S149	18	(US-20020034880-S or US-20030141018-S or US- 20040074516-S or US- 20040250755-S or US- 20040250775-S or US- 20040255854-S or US- 20030036272-S or US- 20050279731-S or US- 20030198754-S or US- 20040050325-S or US- 20050247331-S).did. or (US-6007330-S or US- 5575853-S or US- 6918406-S or US- 6938638-S or US- 7182879-S or US- 6689699-S or US- 6863019-S or US- 6782907-S).did. or (JP- 09251981-S).did.	US-PGPUB; USPAT; JPO	OR	ON	2009/09/09 12:46
S150	7555	(wafer or substrate) and (return with (path or pipe)) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46

S151	1466	(wafer or substrate) and ((gas and return) with (path or pipe)) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2009/09/09 12:46
S152	1054	S151 and valve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2009/09/09 12:46
S153	120	(Saito-Masashi.in. or Hirayama-Yusuke.in. or Sakai-Itsuko.in. or Ohiwa-Tokuhisa.in.) and (reactor or chamber)	US-PGPUB; USPAT; JPO	OR	ON	2009/09/09 12:46
S154	1049	S152 not S153	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2009/09/09 12:46
S155	9	("20020145711" I "20030164929" I "6665046" I "6704088" I "6734950" I "6788392" I "6961113" I "6987554"). PN. OR ("7145629"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/09 12:46
S156	14	("20020094306" I "20030151728" I "4704348" I "4786947" I "5696623" I "6335787" I "6545746" I "6616898" I "6700641" I "6707529"). PN. OR ("6987554"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/09 12:46
S157	23	(US-20020034880-\$ or US-20030141018-\$ or US-20040074516-\$ or US-20040250755-\$ or US-20040250775-\$ or US-20040255854-\$ or US-20030036272-\$ or US-20050279731-\$ or US-20030198754-\$ or US-20040050325-\$ or US-20050247331-\$ or US-20010051232-\$ or US-20020134429-\$).did. or (US-6007330-\$ or US-5575853-\$ or US-6918406-\$ or US-6938638-\$ or US-7182879-\$ or US-	US-PGPUB; USPAT; JPO	OR	ON	2009/09/09 12:46

		6689699-\$ or US-6863019-\$ or US-6782907-\$ or US-7145629-\$ or US-6987554-\$ or US-7283199-\$ or US-5549798-\$).did. or (JP-09251981-\$).did.				
S158	27	("20030029566"   "3867216"   "4336414"   "5028556"   "5417742"   "5688405"   "5693179"   "5708556"   "5785741"   "5812403"   "5818018"   "5949076"   "5964949"   "5997737"   "6032484"   "6045618"   "6187072"   "6193802"   "6194628"   "6206970"   "6332925"   "6334928"   "6383301"). PN. OR ("6863019"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/09 12:46
S159	1094	(wafer or substrate) and (recirculat\$3 with (path or pipe)) and (reactor or chamber or vessel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S160	1005	S159 not S154	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S161	617	S160 and valve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S162	567	S161 not blood	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S163	567	S162 not hemoglobin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46

S164	733	HORIUCHI-TAKAO.in. or HORIUCHI-AZUMI. in. or GAMINO- HIROAKI.in. or NIIMURA-YASUHIRO. in. or HATTORI- HIROSHI.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S165	55	S164 and (wafer or substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:46
S166	2	("6942811").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/09 12:46
S167	4	((("6942811") or ("6217633"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/09 12:46
S168	1	S117 and (dry adj1 pump) and (TMP and reservoir)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:53
S169	9	(wafer or substrate) and (chamber or reactor or vessel) and (dry adj1 pump) and (TMP and reservoir)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:54
S170	259	(wafer or substrate semiconductor) and (chamber or reactor or vessel) and (dry adj1 pump) and TMP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 12:58

S171	32	(US-20020034880-S or US-20030141018-S or US-20040074516-S or US-20040250755-S or US-20040250775-S or US-20040255854-S or US-20030036272-S or US-20050279731-S or US-20030198754-S or US-20040050325-S or US-20050247331-S or US-20010051232-S or US-20020134429-S or US-20060102282-S or US-20070119814-S or US-20020121502-S or US-20060207314-S).did. or (US-6007330-S or US-5575853-S or US-6918406-S or US-6938638-S or US-7182879-S or US-6689699-S or US-6863019-S or US-6782907-S or US-7145629-S or US-6987554-S or US-7283199-S or US-5549798-S or US-6942811-S or US-6217633-S).did. or (JP-09251981-S).did.	US-PGPUB; USPAT; JPO	OR	ON	2009/09/09 14:24
S172	2	(wafer or substrate semiconductor) and (chamber or reactor or vessel) and (dry adj1 pump) and TMP	JPO	OR	ON	2009/09/09 14:24
S173	1032	(wafer or substrate semiconductor) and (chamber or reactor or vessel) and (dry adj1 pump) and turbo	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 14:32
S174	796	S173 not S170	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 14:32
S175	602	S174 and valve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/09 14:32

S176	6	("20010021848" I "5762755" I "6008128" I "6248618" I "6630995" I "6743289").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/09 15:22
S177	222	(fourth adj1 pump) and (wafer or substrate or semiconductor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 09:23
S178	22	((TMP or (turbo)) adj1 pump) and (wafer or substrate or semiconductor) and (reactor or chamber) and (booster adj1 pump)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 13:21
S179	65	("4171235" I "4435445" I "4461783" I "4485125"). PN. OR ("4636401"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/10 13:30
S180	101	reservoir and (wafer or substrate or semiconductor) and (reactor or chamber) and (booster adj1 pump)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 13:43
S181	23600	reservoir and (wafer or substrate or semiconductor) and (reactor or chamber) and pumps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 13:43
S182	1979	S181 and (recycle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 13:43
S183	41	S182 and turbo	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 13:44
S184	98	C23C16/455R.IPC. or C23C16/44H.IPC. or C30B25/02.IPC. H01L21/00S2D.IPC.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 13:55
S185	1938	S182 not S183	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 14:07

S186	198	S185 and TMP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 14:08
S187	10	S186 not print\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 14:10
S188	0	S186 and (molecular with pump)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 14:13
S189	23600	S181 and pumps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 14:14
S190	609	(expansion adj1 chamber) and (wafer or substrate or semiconductor) and (reactor or chamber) and pumps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 14:36
S191	25	S190 and TMP	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/10 14:36
S192	2	("20060137820").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/10 15:50

9/13/09 7:27:46 PM

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